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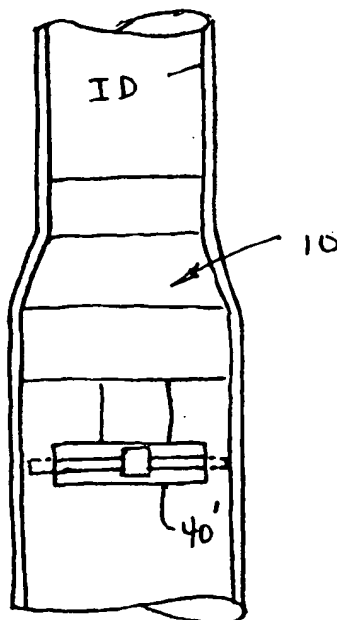
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(54) Title: RESIDUAL STRESSES IN EXPANDABLE TUBULAR CASING



(57) Abstract: An elongated section of steel tubing (30) has an outer circumferential surface and an inner circumferential surface defining an elongated axial passage through the tubing. An expansion mandrel (10) is moved through the tubing for radially expanding the tubing. An impact member (40) is provided for travel through the length of the axial passage. A plurality of movable impactors (42) are mounted to extend from the impact member. The impactors are driven for repeated contact with the inner circumferential surface as the impact member is moved through the tubing subsequent to the expansion mandrel for contacting the expanded inner circumferential surface along the entire length of the axial passage. Movement of the impactors is ultrasonic.

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INTERNATIONAL SEARCH REPORT

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B. FIELDS SEARCHED		
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2,929,741 A (STROCK et al.) 05 January 1960, (05-01-1960), whole doc.	23
Y		15-19
X	US 4,491,001 A (YOSHIDA et al.) 01 January 1985 (01-01-1985), whole doc.	1-3, 5-7, 21, 22
Y		4, 8, 15-19
Y	US 6,343,495 B1 (CHEPPE et al.) 05 February 2002 (05-02-2002), whole doc.	4, 8
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